

Explosion-proof Electrical Apparatus(motor starter)

KDP06- Series

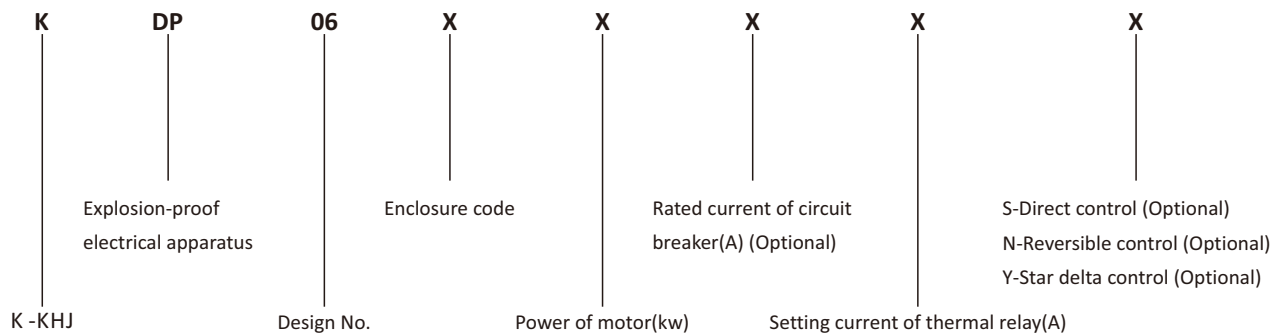
- II 2 G Ex db IIB T6/T5/T4 Gb
- II 2 G Ex db IIB+H2 T6/T5/T4 Gb
- II 2 D Ex tb IIIC T80/T95/T130°C Db



1. Application and Features

- Explosion proof certificates
 - ATEX : TPS 22 ATEX 114950 0003 X
 - IECEx : IECEx TPS 22.0025X
- Application in hazardous area
Zone 1 and Zone 2,
Zone 21 and Zone 22
- Three types of explosion protection: Ex db IIB, Ex db IIB+H2, Ex tb IIIC.
- The enclosure can be equipped with miniature circuit breakers (MCB) or molded case circuit breakers (MCCB), contactors, thermal relays, control buttons, indicator lights, push switches, potentiometers, voltmeters, ammeters, tachometers, terminals, etc.
- It's able to control the start, stop, forward and reverse rotation of the motor, and the comprehensive protection of the motor, able to multi-places control.
- The enclosure with hinges and handle, convenient for installation and maintenance. Protect the flame-proof surface when operating.
- The circuit breaker using metal handle and can be equipped with a padlock.
- Can be customized according to user requirements, meet the certificate use restrictions.
- The number of elements and the maximum number of holes size needs to meet the requirements of power dissipation and mechanical strength of the housing.
- Please specify the special requirements when ordering.




2. Product definition



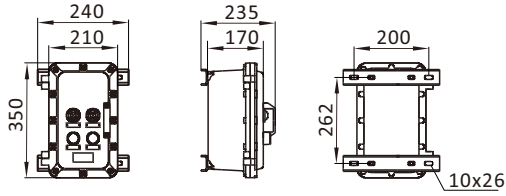
Note:

1. Please select the model according to the "Product definition" above, and specify all the technical parameters.
2. Please provide the electrical schematic diagram.
3. Please specify the number, specification and position of the cable entry holes, and ex-proof cable glands provided by user.
4. The rain shade is customizable by requirements.

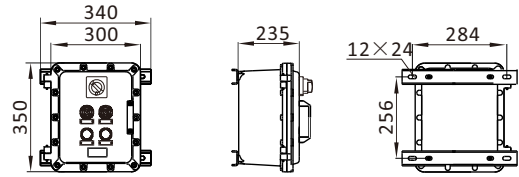
3. Technical Parameter

Ex marking	Gas	 II 2 G Ex db IIB T6/T5/T4 Gb	Ex db IIB T6/T5/T4 Gb										
		 II 2 G Ex db IIB+H2 T6/T5/T4 Gb	Ex db IIB+H2 T6/T5/T4 Gb										
	Dust	 II 2 D Ex tb IIIC T80/T95/T130°C Db	Ex tb IIIC T80/T95/T130°C Db										
Exective standards		IEC 60079-0, IEC 60079-1, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-31											
Enclosure material	Enclosure	Aluminum alloy enclosure, powder coated, Industrial grey with dark lines texture (RAL7035)											
	Transparent part	Tempered glass, resistant to 4J impact											
	Rain shade	Bended steel plate surface powder coated, industrial grey with dark lines texture (RAL7035) or stainless steel 304/316, please note when needed											
Exposed fasteners		Stainless steel											
Components	Power circuit breaker	Miniature circuit breaker (MCB) or molded case circuit breaker (MCCB) and leakage circuit breaker											
	Branch switch	Miniature circuit breaker (MCB) or molded case circuit breaker (MCCB) and leakage circuit breaker											
	Terminal block	World famous brand											
	Indicator	Red, green, yellow, blue, white											
	Button	Red, green, yellow, blue, white											
	Control switch	LW26-D, LW26-F											
	AC contactor	World famous brand											
	Thermal relay	World famous brand											
Rated voltage		Maximum 690V AC											
Rated current		Maximum 200A											
Frequency		50Hz/60Hz											
Maximum dissipation power	Enclosure size	Type	Ta: +40°C				Ta: +60°C				The weight of Empty enclosure		
			T6/T80°C		T5/T95°C		T4/T130°C		T6/T80°C			T5/T95°C	
				Power	Current	Power	Current	Power	Current	Power	Current	Power	Current
	282×210×170	03	45W	--	110W	--	110W	--	45W	--	72W	--	9.0kg
	350×210×170	07	45W	≤40A	80W	≤50A	139W	--	45W	≤40A	80W	≤50A	11.5kg
	350×300×235	08	45W	≤40A	80W	≤50A	139W	--	45W	≤40A	80W	≤50A	16.6kg
	433×350×280	11	100W	≤95A	288W	≤120A	288W	--	100W	≤95A	162W	≤120A	26kg
	563×433×280	15	130W	≤150A	365W	≤200A	365W	--	130W	≤150A	225W	≤200A	48kg
720×563×280	19	200W	≤200A	448W	≤300A	448W	≤300A	200W	≤200A	380W	≤300A	85kg	
720×563×350	21	210W	≤200A	690W	≤300A	690W	≤300A	210W	≤200A	400W	≤300A	95kg	
Degree of protection		IP66											
Ambient temperature		-20°C~+40/60°C, -40°C~+40/60°C											
Cable entry		M16×1.5-M63×1.5(default, exact size according to requirement), NPT thread (optional), KBM Series Explosion-proof Cable Glands is recommended											
Inlet direction		Bottom in and bottom out, upon request											
Installation method		Wall type (Standard)											
		Stand type (Optional)											

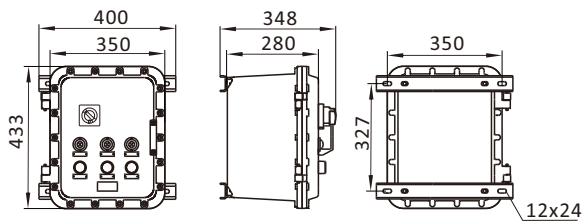
4. Outline and Installation(mm)



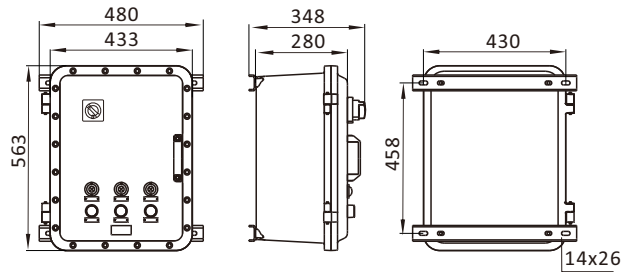
KDP06-07/3kW



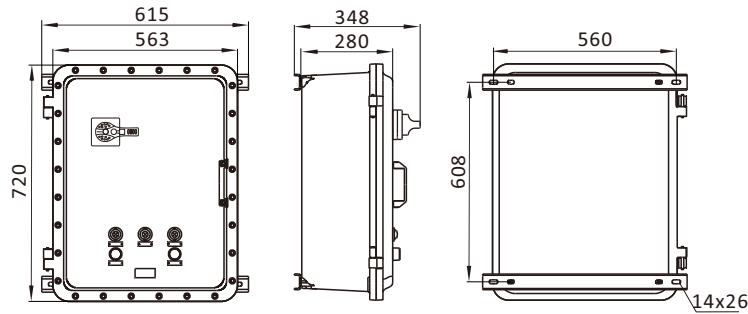
KDP06-08/4kW ~ 7.5kW



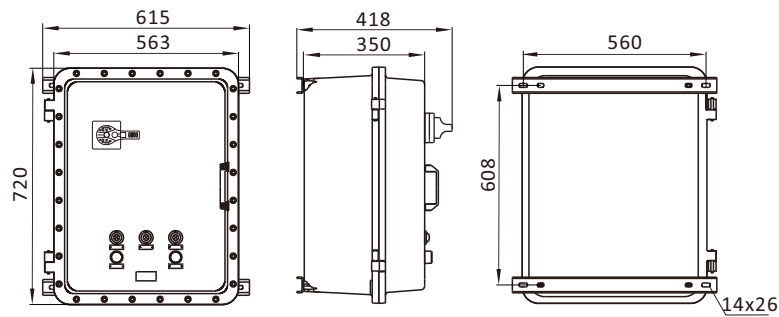
KDP06-11/11kW ~ 22kW



KDP06-15/30kW ~ 37kW

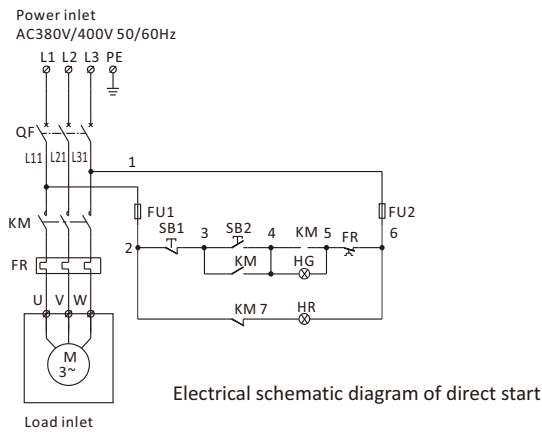


KDP06-19/45kW ~ 55kW



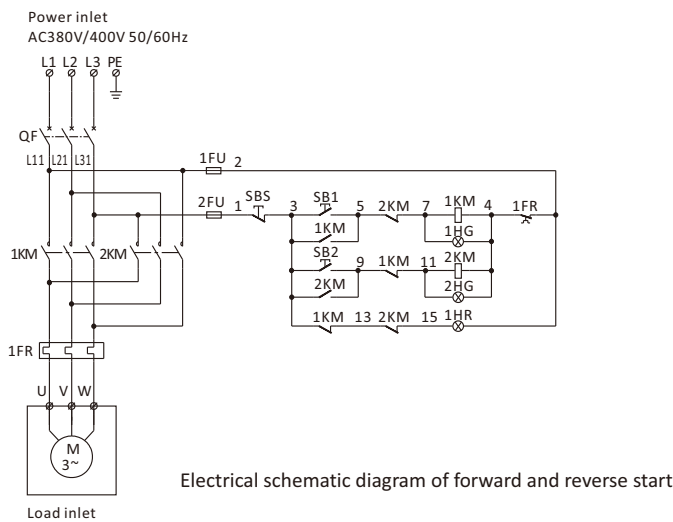
KDP06-21/75kW ~ 90kW

5. Electrical Schematic Diagram



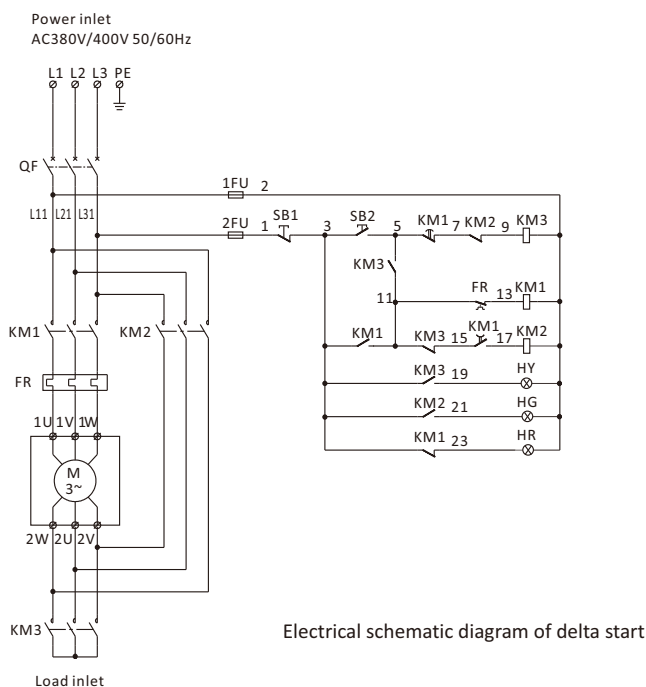
Description of electrical components code

- QF: Circuit breaker
- KM: AC contactor
- FR: Thermal relay
- FU1, FU2: Fuse
- SB1: Stop button
- SB2: Start button
- HR: Stop indicator
- HG: Run indicator



Description of electrical components code

- QF: Circuit breaker
- KM1, KM2: AC contactor
- FR: Thermal relay
- FU1, FU2: Fuse
- SBS: Stop button
- SB1: Forward start button
- SB2: Reverse start button
- HR: Stop indicator
- HG1: Forward running indicator
- HG2: Reverse running indicator



Description of electrical components code

- QF: Circuit breaker
- KM1: Main contactor
- KM2: Delta running contactor
- KM3: Delta start contactor
- FR: Thermal relay
- FU1, FU2: Fuse
- SB1: Stop button
- SB2: Start button
- HR: Stop indicator
- HY: Delta start indicator
- HG: Delta running indicator